

LISTING OF THE CLAIMS

No amendments to the claims are made herein.

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously Presented) A system for managing an object positioned in a management area in a building, the system comprising

a host computer comprising a database which stores map data of the management area and position data of a tangible object to be managed in relation to attribute data of the object to be managed used for identifying the object to be managed, the position data including coordinate data comprising starting points “X” and “Y” and end points “X” and “Y” for each object to be managed, wherein the coordinate data for each object to be managed is related to the map data;

a portable terminal machine configured to specify the object to be managed, among a plurality of objects to be managed;

data communication means for transferring only a selected database from the host computer to the portable terminal machine so that only information about the object to be managed and physical surrounding attributes is transferred to the portable terminal; and

an editing means for editing the coordinate data of a new object to be managed or when the object to be managed is being moved to a new location,

wherein the portable terminal machine displays a map of the management area in the building and a position of the object to be managed on the map according to the coordinate data in the database transferred from the host computer to the portable terminal machine and the physical surrounding attributes.

2. (Previously Presented) The system of claim 1, wherein the portable terminal machine includes:

a data storing unit for storing the database transferred from the host computer;

a condition inputting unit for entering a retrieval condition; and

a searching unit for searching the database according to the retrieval condition to obtain the position data from the database when the attribute data of the object to be managed matches the retrieval condition.

3. (Original) The system of claim 1, wherein the portable terminal machine includes a data synchronization unit for synchronizing data in the database stored in the data storing unit of the portable terminal machine with data in the database held in the host computer.

4. (Original) The system of claim 1, wherein the host computer includes a data synchronization unit for synchronizing data in the database stored in the data storing unit of the portable terminal machine with data in the database held in the host computer.

5. (Previously Presented) The system of claim 1, wherein the object to be managed is a computer.

6. (Previously Presented) A retrieval system structured and arranged to manage an object positioned in a management area, comprising:

a host computer including a database, which database is output by the host computer on request, in which retrieval information and position information of tangible objects to be managed in the management area are held in relation to each other; and

a portable terminal machine for receiving and storing the database output by the host computer;

wherein the portable terminal machine includes:

a searching unit for searching the retrieval information in the database according to a condition specified by a user to identify a match between the retrieval information and the condition, and consequently to specify the position information of a particular object of the

objects to be managed; an editing means for editing coordinate data of a new object to be managed or when any of the objects to be managed is moved to a new location, the coordinate data including starting points “X” and “Y” and ending points “X” and “Y”; and

a map display unit displaying one of plural floor maps of the management area and a position where the particular object is located on the one floor map according to the position information, the floor map including physical attributes of both the object to be managed and attributes of an environment surrounding the object to be managed.

7. (Previously Presented) A portable position display apparatus structured and arranged to display a position of a tangible object to be managed in relation to a management area in a building, comprising:

a data storing unit for storing a database that includes map data used to display a map of an area of the management area in the building in which the object to be managed is positioned, position data used to locate the object to be managed on the map, and attribute data used to identify the object to be managed, wherein the position data is stored in relation to the attribute data;

a condition input unit for enabling a user to enter a retrieval condition;

a searching unit for searching the database stored in the data storing unit according to the retrieval condition to identify a match between the attribute data and the retrieval condition and consequently to identify position data of the object to be managed independent of the portable position display apparatus's position; and

a map display unit displaying the map of the area and a position of the object to be managed on the map according to the map data and the position data in the database when a match is identified by the searching unit.

8. (Original) The apparatus of claim 7, further including a data receiving unit for receiving the database.

9. (Previously Presented) The apparatus of claim 7, further including a management information display unit for displaying management information of the object to be managed according to the attribute data in the database when the searching unit identifies the match.

10. (Previously Presented) Apparatus for managing data of a tangible object to be managed in a management area of a building, the apparatus comprising:

a database storing unit for storing a database that includes map data used to display a map of an area of the management area of the building in which an object to be managed is positioned, position data of a display mark that denotes the position of the object to be managed on the map, and attribute data used to identify the object to be managed;

a database outputting unit for outputting only a selected portion of the database to a portable terminal machine in response to a request from the portable terminal machine independent of a position of the portable terminal machine so that only information about the object to be managed and physical attributes of a surrounding environment is transferred to the portable terminal machine; and

a map display unit displaying the map of the area according to the map data in the database and displaying the position and shape of the object on the map.

11. (Previously Presented) The apparatus of claim 10, further including:

a mark drawing unit for enabling a user to draw the display mark on the map displayed by the map display unit;

a coordinate obtaining unit for obtaining coordinates of the display mark drawn by the mark drawing unit; and

a data storing unit for storing the coordinate data in the database as the position data of the display mark.

12. (Original) The apparatus of claim 11, wherein the map display unit, when the display mark is drawn by the mark drawing unit, displays a reference line created on the map in response to a fixed item in the area in which the object to be managed is positioned.

13. (Previously Presented) A position display method, comprising the steps of:  
storing a database that includes map data used to display an area of management area of a building in which a plurality of tangible objects to be managed are placed as a map, position data used to display a position of each of the plurality of objects to be managed in the area on the map, and attribute data used to identify each object to be managed in a locally unique way;  
prompting a user of a portable terminal to specify a specific object to be managed from among the plurality of objects to be managed;  
reading the map data and the position data of the specific object to be managed from the database; and  
displaying the position of the specific object to be managed in the area on the map on the portable terminal according to the map data and the position data read from the database.

14. (Original) The method of claim 13, wherein the database is received from a host computer and stored in the database storing step.

15. (Original) The method of claim 14, wherein the database is updated by the host computer.

16. (Original) The method of claim 15, wherein the host computer updates the database at predetermined times.

17. (Previously Presented) A computer readable storage medium that stores a program to be executed by a computer, the program enabling the computer to execute:

a first process for displaying a map on a portable terminal based on map data and on position data of a tangible object that is positioned and managed in a specific area of management area of a building, wherein the map data and the position data are stored in a database;

a second process for drawing a display mark of the object to be managed using the portable terminal according to an input from a user that specifies the object to be managed from among a plurality of objects to be managed on the map;

a third process for obtaining coordinate data of the drawn display mark on the map; and

a fourth process for storing the coordinate data in the database in relation to entered data of the object.

18. (Original) The computer readable storage medium of claim 17, wherein the program further enables the computer to execute a process for presenting a list of objects to be managed, read from the database, so as to prompt the user to specify a particular object to be managed and to be stored in relation to the coordinate data in the fourth process.

19. (Previously Presented) The system of claim 1, wherein the portable terminal machine is configured to input object information for managing the object to be managed independent of the position of the portable terminal machine and the object to be managed.

20. (Previously Presented) The position display method of claim 13, wherein a the user specifies an object to be managed independent of the user's position relative to the object to be managed.

21. (Previously Presented) The system of claim 1, wherein the portable terminal machine displays the position of the object to be managed in relation to fixed items on the map.

22. (Previously Presented) The system of claim 1, wherein the tangible object to be managed comprises one of a machine and a book.

23. (Previously Presented) The apparatus of claim 7, wherein the map display unit displays the position of the object to be managed in relation to fixed items on the map and the object to be managed comprises a machine.

24. (Previously Presented) The apparatus of claim 7, wherein the tangible object to be managed comprises one of a machine and a book.

25. (Previously Presented) The method of claim 13, wherein the tangible object to be managed comprises one of a computer and a book.